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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/543,043	07/21/2005	Jeffrey Allen Cooper	PU030313	3936
24498 7590 03/01/2010 Robert D. Shedd, Patent Operations THOMSON Licensing LLC P.O. Box 5312 Princeton, NJ 08543-5312			EXAMINER	
			CZEKAJ, DAVID J	
			ART UNIT	PAPER NUMBER
,			2621	
			MAIL DATE	DELIVERY MODE
			03/01/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) COOPER ET AL. 10/543,043 Office Action Summary Examiner Art Unit DAVID CZEKAJ -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER FROM THE MAILING DATE OF THIS COMMUNICATION

 Extensions of time may be available under the provisions of 37 CFR 11 after SIX (6) MOXTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will by statute Any reply received by the Cffico later than three months after the mailing earned patient term adjustment. See 37 CFR 1,704(b). 	36(a). In no event, however, may a reply be timely filed will apply and will expire SIX (6) MONTHS from the mailing date of this communication. cause the application to become ABANDONED (35 U.S.C. § 133).
Status	
· -	action is non-final. nce except for formal matters, prosecution as to the merits is
Disposition of Claims	
4) Claim(s) 1-19 is/are pending in the application 4a) Of the above claim(s) is/are withdrat 5) Claim(s) is/are allowed. 6) Claim(s) 1-19 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	wn from consideration.
Application Papers	
Replacement drawing sheet(s) including the correct	
Priority under 35 U.S.C. § 119	
	is have been received. Is have been received in Application No In this National Stage of (PCT Rule 17.2(a)).
Attachment(s)	
1) Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)

 Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Arformation Disclosure Statement(s) (FTO/SB/00) 5) Notice of Informal Patent Application Paper No(s)/Mail Date See Continuation Sheet. 6) Other: __ U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06) Office Action Summary Part of Paper No./Mail Date 20100225 $Continuation \ of \ Attachment(s)\ 3).\ Information \ Disclosure \ Statement(s)\ (PTO/SB/08), Paper\ No(s)/Mail\ Date\ :12/7/09,\ 8/8/08,\ 1/29/07,\ 10/30/06,\ 7/21/05.$

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

 Claims 1-2, 6-8, 11-12, and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Stephens et al. (6304609), (hereinafter referred to as "Stephens").

Regarding claim 1, Stephens discloses an apparatus that relates to a communication system (Stephens: column 1, lines 9-10). This apparatus comprises "encoding a first signal" (Stephens: figure 7, item 30A, wherein the encoder encodes the first signal), "encoding a second signal" (Stephens: figure 7, item 30B), "specifying a time delay period" (Stephens: figure 5, item 120, wherein the time delay is introduced by the delaying means), "generating a composite signal comprising the first and second signals" (Stephens: figure 7, item 172, wherein the multiplexer combines the signals), and "if an error is detected, decode the second encoded signal, otherwise decode the first signal" (Stephens: column 14, lines 51-67, wherein the error is the bit error rate).

Regarding claims 2 and 12, Stephens discloses "generating a signal carrying data representing the time delay period" (Stephens: figure 5, item Art Unit: 2621

120, wherein the time delay is the delaying means), "extracting the first and second encoded signals and time delay" (Stephens: figure 7, wherein the selector extracts the signal), and "delaying the extracted second signal, whereby the signals are realigned in time" (Stephens: figure 5, wherein the deinterleaver delays the signals).

Regarding claim 6, Stephens discloses "the time delay period representative data comprises the time duration of the time delay period" (Stephens: column 11, lines 8-26, wherein the time delay period is the time delay).

Regarding claim 7, Stephens discloses "the time delay period representative data comprises a number representing a number of time intervals of predetermined length" (Stephens: column 11, lines 8-9, wherein the predetermined length is twice the channel correlation time).

Regarding claims 8 and 16, Stephens discloses "encoding the first content using an encoding technique backward compatible" (Stephens: figure 7, wherein the backward compatible encoder is the high quality encoder) and "encoding the second signal using a relatively robust technique" (Stephens: figure 7, wherein the robust technique is the low quality encoder).

Regarding claim 11, note the examiners rejection for claims 1-2.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3-5, 9-10, 13-15, and 17-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stephens et al. (6304609), (hereinafter referred to as "Stephens") in view of Thomas et al. (2002/0047902), (hereinafter referred to as "Thomas").

Regarding claims 3-4 and 13-14, note the examiners rejection for claim 1, and in addition, claims 3-4 and 13-14 differ from claim 1 in that claims 3-4 and 13-14 further require generating a data table containing information related to the first and second signals. Thomas teaches that data tables can be useful for monitoring and diagnosing/troubleshooting streams (Thomas: paragraphs 0062, 0063, 0064, and 0065, wherein the data tables are the PMT tables represented by the letters AN and M). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to take the apparatus disclosed by Stephens and add the program map tables taught by Thomas in order to obtain an apparatus that operates more efficiently be being able to successfully monitor and troubleshoot errors occurring in streams.

Regarding claims 5 and 15, Thomas discloses "the data table is a PSIP-VCT table" (Thomas: paragraph 0078).

Regarding claims 9, 17, and 19, Thomas discloses "encoding the signals using 8-VSB modulation" (Thomas: figure 8, items 824 and 826; paragraph 0167). Although not disclosed, it would have been obvious to use 2 or 4-VSB (Official Notice). Doing so would have been obvious in order to provide a wider range of encoding options.

Regarding claims 10 and 18, note the examiners rejection for claim 1, and in addition Thomas discloses "encoding using MPEG-2 packet format" (Thomas: paragraph 0149, wherein the packet format is indicated by the transport streams). Although not disclosed, it would have been obvious to encode according to JVT (Official Notice). Doing so would have been obvious in order to better help compress the data.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

US-7092442 08-2006 Zhang et al. US-2002/0181581 12-2002 Birru et al.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DAVID CZEKAJ whose telephone number is (571)272-7327. The examiner can normally be reached on Mon-Thurs and every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on (571) 272-7418.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dave Czekaj/ Primary Examiner, Art Unit 2621